

FCC Co-Location Test Report

FCC ID : I88WSQ60
Equipment : Multy X AC3000 Tri-Band WiFi System
Model No. : WSQ50
Multiple Listing : Refer to item 1.1.1 for more details
Brand Name : ZYXEL
Applicant : Zyxel Communications Corporation
Address : No.2, Industry East Road IX, Hsinchu Science
Park, Hsinchu, 30075, Taiwan, R.O.C.
Standard : 47 CFR FCC Part 15.247
47 CFR FCC Part 15.407
Received Date : Jan. 31, 2018
Tested Date : Apr. 17 ~ Apr. 20, 2018

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:


Along Chen / Assistant Manager

Approved by:


Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FR760801-02CO	Rev. 01	Initial issue	Jun. 15, 2018

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.247(d) 15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 46.51MHz 36.97 (Margin -3.03dB) - QP	Pass

1 General Description

1.1 Information

1.1.1 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name	Description
ZYNEL	WSQ50	Multy X AC3000 Tri-Band WiFi System	For marketing different
	WSQ60	Multy Plus AC3000 Tri-Band WiFi System	
<div>✦ All models are electrically identical, different model names are for marketing purpose.</div> <div>✦ The above models, model WSQ50 was selected as a representative one for the final test and only its data was recorded in this report.</div>			

1.1.2 Specification of the Equipment under Test (EUT)

WLAN	
Operating Frequency	802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n/ac: 5180 MHz ~ 5240 MHz; 5745 ~ 5825 MHz
Modulation Type	802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11a/g/n/ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)
BT LE	
Operating Frequency	2402 MHz ~ 2480 MHz
Modulation Type	Bluetooth 4.1 LE: GFSK

1.1.3 Main Chipset / RF Chipset

Function	Model No.
Main Chipset	IPQ4019
2.4G	IPQ4019
5G 2T2R	IPQ4019
5G 4T4R	QCA9984
Bluetooth LE	CSR8811

1.1.4 Antenna Details

For WLAN

Ant. No.	Model	Type	Connector	Operating Frequency (MHz) / Gain (dBi)		
				2400~2483.5	5150~5250	5725~5850
1	ALX17P-051XXB-00	PCB dipole	UFL	0	0	0
2	ALX17P-051XXC-00	PCB dipole	UFL	0	0	0
3	ALX17P-091XX5-00	PCB dipole	UFL	0	0	0
4	ALX17P-091XX6-00	PCB dipole	UFL	0	0	0
5	ALX17P-091XX7-00	PCB dipole	UFL	0	0	0
6	ALX17P-091XX8-00	PCB dipole	UFL	0	0	0
7	ALX17P-091XX9-00	PCB dipole	UFL	0	0	0
8	ALX17P-091XXA-00	PCB dipole	UFL	0	0	0

For BT

Ant. No.	Model	Type	Connector	Gain (dBi)
1	ALX17P-051XXD-00	PCB dipole	UFL	3.41

1.1.5 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12Vdc from adapter
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1.2 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Apr. 17 ~ Apr. 20, 2018				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Dec. 04, 2017	Dec. 03, 2018
Receiver	R&S	ESR3	101658	Nov. 20, 2017	Nov. 19, 2018
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 25, 2017	Jul. 24, 2018
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 20, 2017	Dec. 19, 2018
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 23, 2017	Nov. 22, 2018
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2017	Nov. 12, 2018
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Dec. 07, 2017	Dec. 06, 2018
Preamplifier	EMC	EMC02325	980225	Jul. 28, 2017	Jul. 27, 2018
Preamplifier	Agilent	83017A	MY39501308	Oct. 06, 2017	Oct. 05, 2018
Preamplifier	EMC	EMC184045B	980192	Aug. 22, 2017	Aug. 21, 2018
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Dec. 07, 2017	Dec. 06, 2018
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 07, 2017	Dec. 06, 2018
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 07, 2017	Dec. 06, 2018
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	16052	Dec. 07, 2017	Dec. 06, 2018
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Dec. 07, 2017	Dec. 06, 2018
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Dec. 07, 2017	Dec. 06, 2018
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.3 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.247

47 CFR FCC Part 15.407

ANSI C63.10-2013

FCC KDB 558074 D01 DTS Meas Guidance v04

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Measurement Uncertainty	
Parameters	Uncertainty
Radiated emission \leq 1GHz	± 3.66 dB
Radiated emission $>$ 1GHz	± 5.63 dB

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
Radiated Emissions	03CH01-WS	22-24°C / 62-63%	Roger Lu Akun Chung

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- IC site registration No.: 10807A-1

2.2 The Worst Test Modes and Channel Details

Test item	Test Mode
Radiated Emissions	2.4G 11b CH6 + 5G B1 11ac CH48 + 5G B4 11a CH157 + BLE CH39

Note:

1. Two adapters (WA-36A12FU and WA-36A12R) had been covered during the pretest, and found that **WA-36A12FU adapter** was the worst case and was selected for final test.
2. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **X-plane** results were found as the worst case and were shown in this report.
3. The selected channel is the maximum power channel of each function

3 Transmitter Test Results

3.1 Unwanted Emissions into Restricted Frequency Bands

3.1.1 Limit of Unwanted Emissions into Restricted Frequency Bands

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.1.2 Test Procedures

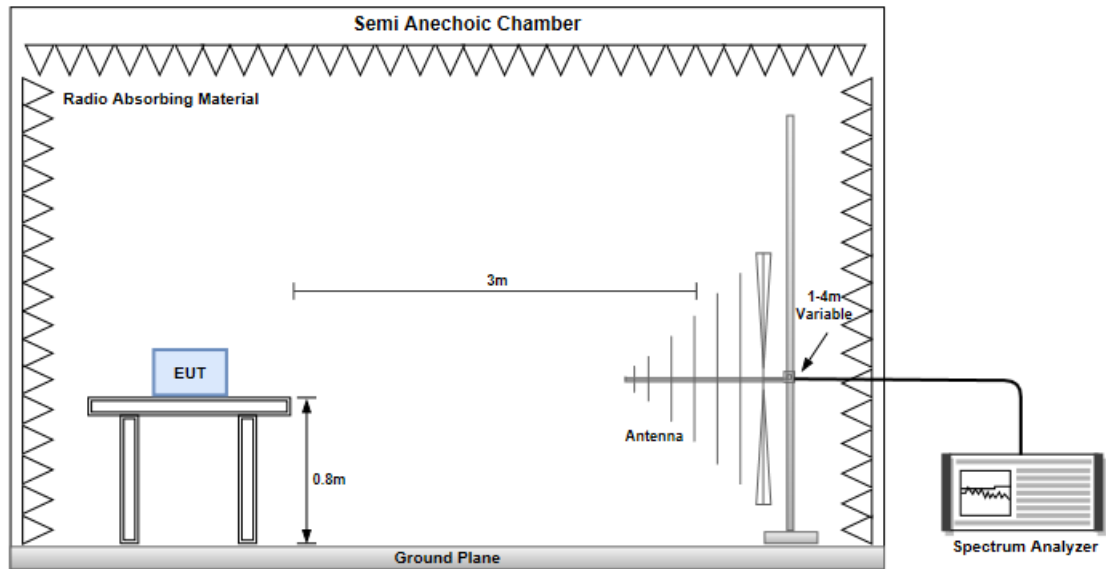
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

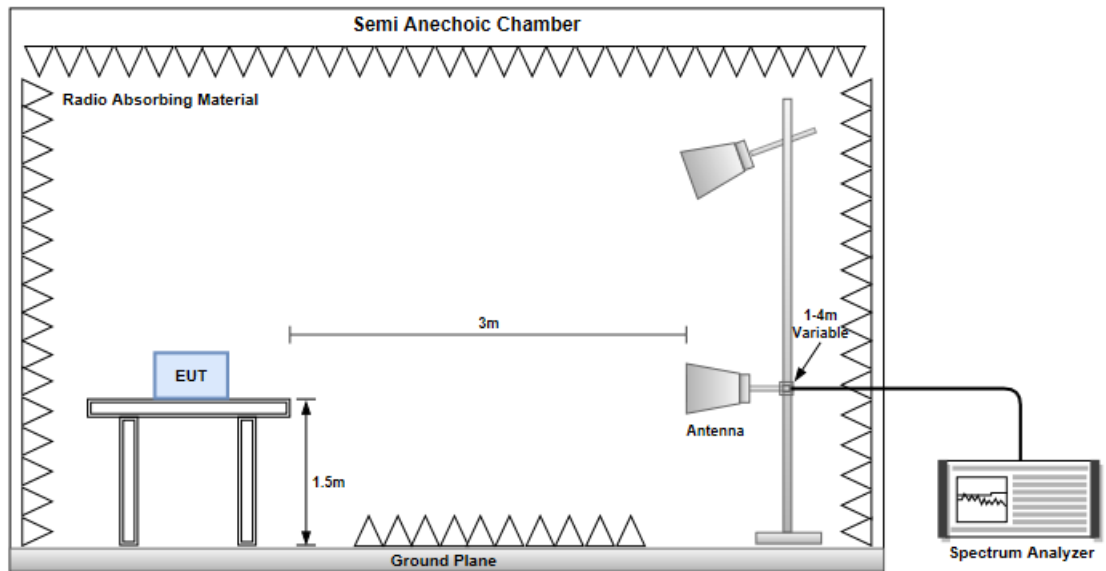
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.1.3 Test Setup

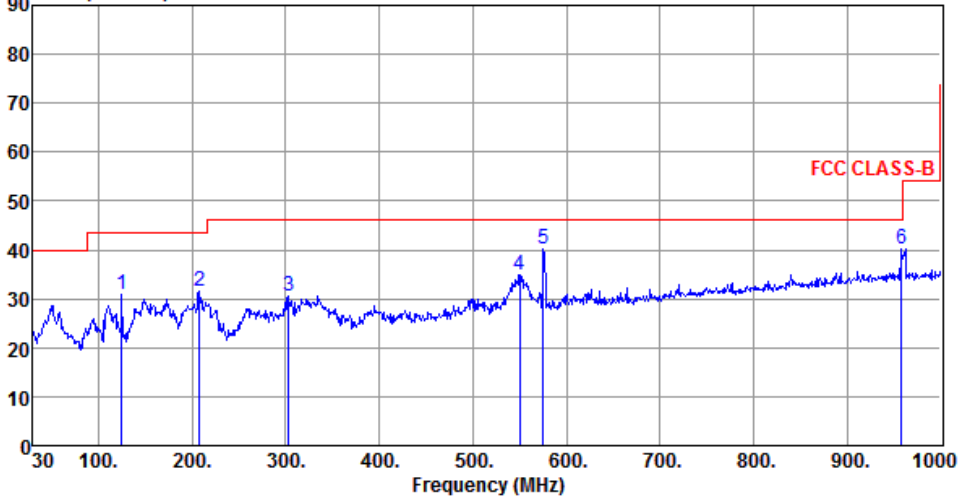
Radiated Emissions below 1 GHz

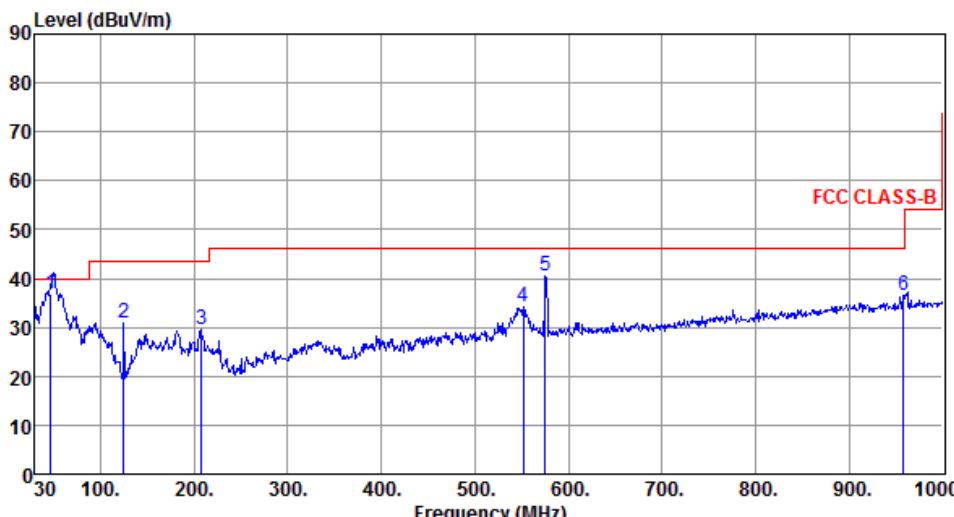


Radiated Emissions above 1 GHz



3.1.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Mode	2.4G 11b CH6 + 5G B1 11ac CH48 + 5G B4 11a CH157 + BLE CH39																																																																														
Polarization	Horizontal																																																																														
<div><div><div>Level (dBUV/m)</div><div><p>The graph displays the radiated unwanted emissions of the transmitter. The y-axis represents the Level in dBUV/m, ranging from 0 to 90. The x-axis represents the Frequency in MHz, ranging from 30 to 1000. A red line indicates the FCC CLASS-B limit, which is 40 dBUV/m from 30 MHz to 100 MHz, 45 dBUV/m from 100 MHz to 1000 MHz, and 50 dBUV/m from 1000 MHz to 1100 MHz. Six peaks are identified and numbered 1 through 6. The measured emission levels are compared against the FCC CLASS-B limit, and the results are summarized in the table below.</p><table><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>125.06</td><td>30.75</td><td>43.50</td><td>-12.75</td><td>40.82</td><td>-10.07</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>207.51</td><td>31.44</td><td>43.50</td><td>-12.06</td><td>42.23</td><td>-10.79</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>303.54</td><td>30.48</td><td>46.00</td><td>-15.52</td><td>38.03</td><td>-7.55</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>549.92</td><td>34.88</td><td>46.00</td><td>-11.12</td><td>36.61</td><td>-1.73</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>575.14</td><td>40.17</td><td>46.00</td><td>-5.83</td><td>41.37</td><td>-1.20</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>958.29</td><td>40.23</td><td>46.00</td><td>-5.77</td><td>35.24</td><td>4.99</td><td>Peak</td><td>---</td><td>---</td></tr></table></div></div></div>											Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg	1	125.06	30.75	43.50	-12.75	40.82	-10.07	Peak	---	---	2	207.51	31.44	43.50	-12.06	42.23	-10.79	Peak	---	---	3	303.54	30.48	46.00	-15.52	38.03	-7.55	Peak	---	---	4	549.92	34.88	46.00	-11.12	36.61	-1.73	Peak	---	---	5	575.14	40.17	46.00	-5.83	41.37	-1.20	Peak	---	---	6	958.29	40.23	46.00	-5.77	35.24	4.99	Peak	---	---
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3.1.5 Transmitter Radiated Unwanted Emissions (Above 1GHz)

Mode	2.4G 11b CH6 + 5G B1 11ac CH48 + 5G B4 11a CH157 + BLE CH39								
Polarization	Horizontal								
<div><div><div>Level 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Mode	2.4G 11b CH6 + 5G B1 11ac CH48 + 5G B4 11a CH157 + BLE CH39								
Polarization	Vertical								
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4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin
Kou District, New Taipei City,
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Kwei Shan

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd St.,
Kwei Shan District, Tao Yuan City
333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd
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If you have any suggestion, please feel free to contact us as below information.

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